

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. MBHB02-325-A (400/047)	Serial No. 10/712,633
1 st SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant: Pavco et al.	
		Filing Date: November 13, 2003	Group: 1635



FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	*	WO 97/15662	05/01/97	WO (Pavco et al.)				
	1.	WO 03/070910	08/28/03	WO (McSwiggen et al.)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

	2.	Reviewed document, But search report is not considered Non-Patent Literature above European Search Report from EP 02752028 mailed October 8, 2004
	3.	Parrish, "Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference," <u>Molecular Cell</u> 6:1077-1087 (2000)
	*	McLaren, "Vascular Endothelial Growth Factor and Endometriotic Angiogenesis," <u>Human Reproduction Update</u> 6:45-55 (2000)
	*	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <u>Nature</u> 411:494-498 (2001)

EXAMINER		DATE CONSIDERED	11-07-05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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Atty. Docket No.

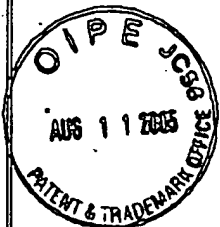
02-325-A (400/047)

Serial No.

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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)



Applicant:

Pavco et al.

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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	1.	03/070887	08/28/03	WO (McSwiggen et al.)	_____	_____		
	2.	03/070896	08/28/03	WO (McSwiggen et al.)	_____	_____		
	3.	03/074654	09/12/03	WO (McSwiggen et al.)	_____	_____		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Reviewed but not considered
NPL


	4.	International Search Report for PCT/US2004/027403 mailed July 12, 2005
	5.	Jen et al., "Suppression of gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies," <i>Stem Cells</i> , 18:307-319 (2000)
	6.	Kuwabara et al., "A C. elegans patched gene, ptc-1, functions in germ-line cytokinesis," <i>Genes and Development</i> , 14(15):1933-1944 (2000)

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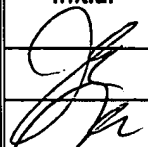
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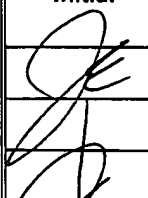
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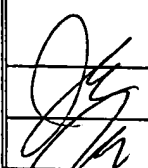
U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
	*	US 2003/0190635	10/2003	McSwiggen et al.	 	 	
	*	US 2003/0206887	11/2003	Morrissey et al.	 	 	

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	*	5,814,620	09/28/98	Robinson et al.	 	 	
	*	5,998,203	12/1999	Matulic-Adamic et al.	 	 	
	*	6,506,559	01/14/03	Fire et al.	 	 	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	1.	2,359,180	03/08/00	CA (Kreutzer et al.)	 	 	 	
	2.	1325955	07/09/03	EP (Klippel-Giese et al.)	 	 	 	


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Copy - Was not provided by Applicants.

33	08208687	08/1996	JP (Hotoda et al.)				
3.	90/14090	11/29/90	WO (Gillespie et al.)				
4.	94/01550	01/20/94	WO (Agrawal et al.)				
5.	97/21808	06/19/97	WO (Robinson)				
6.	99/49029	09/30/99	WO (Graham et al.)				
7.	00/49035	08/24/00	WO (Sheen et al.)				
8.	01/097850	12/27/01	WO (Siemeister et al.)				
9.	01/96584	12/20/01	WO (Mushegian et al.)				
10.	02/07747	01/31/02	WO (King)				
11.	02/10378	02/07/02	WO (Cowser et al.)				
12.	02/22636	03/21/02	WO (Bennett et al.)				
13.	03/068797	08/21/03	WO (Rossi et al.)				
14.	03/070910	08/28/03	WO (McSwiggen et al.)				
15.	03/080638	10/02/03	WO (Lacasse et al.)				
16.	04/009769	01/29/04	WO (Tolentino et al.)				
17.	04/043977	05/27/04	WO (Prakush et al.)				
18.	04/072261	08/26/04	WO (Li et al.)				

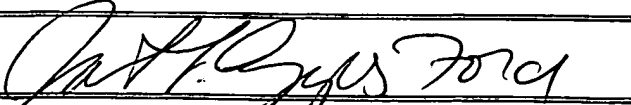
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19.	Anderson et al., "Bispecific Short Hairpin siRNA Constructs Targeted to CD4, CXCR4, and CCR5 Confer HIV-1 Resistance," <i>Oligonucleotides</i> , 13:303-312 (2003)
34.	Bayard et al., "Increased stability and antiviral activity of 2'-O-phosphoglyceryl derivatives of (2'-5')oligo(adenylate)," <i>Eur. J. Biochem.</i> , 142(29):291-298 (1984)
20.	Elbashir et al., "Functional Anatomy of siRNAs for Mediating Efficient RNAi in <i>Drosophila Melanogaster</i> Embryo Lysate," <i>The EMBO Journal</i> 20:6877-6888 (2001)
21.	Futami et al., "Induction of apoptosis in HeLa cells with siRNA expression vector targeted against bcl-2," <i>Nucleic Acids Research Supplement</i> , 251-252 (2002)
22.	International Search Report for PCT/US02/17074 mailed November 12, 2002
23.	International Search Report for PCT/US03/05022 mailed January 6, 2005
24.	International Search Report for PCT/US03/05028 mailed October 17, 2003
25.	International Search Report for PCT/US03/05346 mailed October 17, 2003
26.	International Search Report for PCT/US2004/010390 mailed March 31, 2005
27.	International Search Report for PCT/US2004/030488 mailed January 12, 2005
28.	Leirdal et al., "Gene silencing in mammalian cells by preformed small RNA duplexes," <i>Biochemical and Biophysical Research Communications</i> , 295, 744-748 (2002)
29.	Lin et al., "A Novel mRNA-crRNA Interference Phenomenon for Silencing bcl-2 Expression in Human LNCaP Cells," <i>Biochemical and Biophysical Research Communications</i> , 281, 639-644 (2001)
35.	Lu et al., "Tumor Inhibition By RNAi-Mediated VEGF an VEGFR2 Down Regulation in Xenograft Models," <i>Cancer Gene Therapy</i> , 10, Suppl. 1, S4-S5 (2003)
30.	Parry et al. 1999. "Bioactivity of anti-angiogenic ribozymes targeting <i>Flt-1</i> and <i>KDR</i> mRNA," <i>Nucleic Acid Res.</i> 27:2569-77.
31.	Tuschl et al., "Small Interfering RNAs: A Revolutionary Tool for Analysis of Gene Function and Gene Therapy," <i>Molecular Interventions</i> , 295, 3, 158-167 (2002)

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	32.	Tuschi, "RNA Interference and Small Interfering RNAs," <u>Chembiochem</u> 2:239-245 (2001)
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U.S. PATENT APPLICATION DOCUMENTS

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<i>JK</i>	*	08/584,040	01/11/96	Pavco et al.			
	*	08/878,640	07/19/97	Usman et al.			
	*	09/205,520	12/03/98	Sullenger et al.			
	*	09/301,511	04/28/99	Beigelman et al.			
	*	09/371,772	08/10/99	Pavco et al.			
	*	09/476,387	12/30/99	Beigelman et al.			
	*	09/708,690	11/07/00	Pavco et al.			
	*	09/870,161	05/29/01	Pavco et al.			
	*	09/877,526	06/08/01	Usman et al.			
	*	09/918,728	07/31/01	Beigelman et al.			
	*	10/138,674	05/03/02	Pavco et al.			
	*	60/005,974	10/26/95	Pavco et al.			
	*	60/082,404	04/20/98	Thomspon et al.			
	*	60/101,174	09/21/98	Hartmann et al.			
	*	60/334,461	11/30/01	Sandberg et al.			

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EXAMINER	<i>Jeffrey E. Ford</i>	DATE CONSIDERED	<i>11-7-05</i>
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	*	4,987,071	01/22/91	Cech et al.			
	*	5,270,163	12/14/93	Gold et al.			
	*	5,334,711	08/02/94	Sproat et al.			
	*	5,475,096	12/12/95	Gold et al.			
	*	5,525,468	06/11/96	McSwiggen et al.			
	*	5,589,332	12/31/96	Shih et al.			
	*	5,624,803	04/29/97	Noonberg et al.			
	*	5,631,359	05/20/97	Chowrira et al.			
	*	5,670,633	09/23/97	Cook et al.			
	*	5,627,053	05/06/97	Usman et al.			
	*	5,672,695	09/30/97	Eckstein et al.			
	*	5,716,824	02/10/98	Beigelman et al.			
	*	5,741,679	04/21/98	George et al.			
	*	5,792,847	08/11/98	Buhr et al.			
	*	5,807,718	09/15/98	Joyce et al.			
	*	5,834,186	11/10/98	George et al.			
		5,849,902	12/15/98	Arrow et al.			

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<i>JK</i>	*	5,854,038	12/29/98	Sullenger and Cech					
	*	5,871,914	02/16/99	Nathan et al.					
	*	5,898,031	04/27/99	Crooke					
	*	5,989,912	11/23/99	Arrow et al.					
	*	6,001,311	12/14/99	Brennan					
	*	6,005,087	12/21/99	Cook et al.					
	*	6,107,094	08/22/00	Crooke					
	*	6,127,173	10/03/00	Eckstein et al.					
	*	6,159,714	12/12/00	Usman et al.					
	*	6,180,613	01/30/01	Kaplitt et al.					
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	*	6,346,398	02/12/02	Pavco et al.					
	*	6,476,205	11/05/02	Buhr et al.					
<i>JK</i>	*	6,566,127	05/20/03	Pavco et al.					

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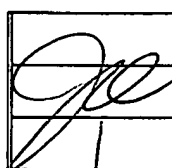
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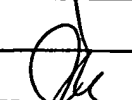
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	*	360257	03/28/90	EP (Hampel et al.)				
	*	89/02439	03/23/89	WO (Arnold et al.)				
	*	91/03162	03/21/91	WO (Rossi et al.)				
	*	92/07065	09/23/91	WO (Eckstein et al.)				
	*	93/15187	08/05/93	WO (Usman et al.)				
	*	93/23057	11/25/93	WO (Thompson et al.)				
	1.	93/23569	11/25/93	WO (Draper et al.)				
	*	94/02595	02/03/94	WO (Sullivan et al.)				
	*	95/04142	02/09/95	WO (Robinson)				
	*	95/04818	02/16/95	WO (Draper et al.)				
	*	95/06731	03/09/95	WO (Usman et al.)				
	*	95/11304	Ck date	WO (Usman et al.)				
	*	95/11910	05/04/95	WO (Dudycz et al.)				
	*	95/13380	05/18/95	WO (Draper et al.)				
	*	95/21868	08/17/95	WO (Rockwell et al.)				
	*	95/23225	08/31/95	WO (Stinchcomb et al.)				
	*	96/10390	04/11/96	WO (Asnell et al.)				
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	*	96/10392	04/11/96	WO (Choi et al.)						
	2.	96/18736	06/20/96	WO (Beigelman et al.)						
	*	96/22689	08/01/96	WO (Pyle et al.)						
	3.	97/15662	05/01/97	WO (Pavco et al.)						
	*	97/26270	07/04/97	WO (Wincott et al.)						
	*	98/13526	04/02/98	WO (Woolf et al.)						
	*	98/27104	06/25/98	WO (Breaker et al.)						
	*	98/28317	07/02/98	WO (Karpeisky et al.)						
	4.	98/43993	03/30/98	WO (Breaker et al.)						
	*	98/58058	12/23/98	WO (Ludwig et al.)						
	5.	99/04819	02/04/99	WO (Klimuk et al.)						
	6.	99/05094	02/04/99	WO (Beigelman et al.)						
	7.	99/07409	02/18/99	WO (Deschamps de Paillette et al.)						
	8.	99/14226	09/14/98	WO (Wengel et al.)						
	*	99/16871	04/08/99	WO (Eckstein et al.)						
	9.	99/32619	07/01/99	WO (Fire et al.)						
	10.	99/49029	09/30/99	WO (Graham et al.)						
	11.	99/53050	10/21/99	WO (Waterhouse et al.)						
	12.	99/54459	10/28/99	WO (Thompson et al.)						

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•	99/55857	11/04/99	WO (Beigelman et al.)					
13.	99/61631	12/02/99	WO (Heifetz et al.)					
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•	00/24931	05/04/00	WO (Nathan et al.)					
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20.	00/73416	12/07/00	WO (Labarbera et al.)					
21.	01/29058	04/26/01	WO (Mello and Fire)					
22.	01/32920	05/10/01	WO (Pappa)					
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24.	01/75164	10/11/01	WO (Tuschl et al.)					
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

•	Aiello et al., "Suppression of Retinal Neovascularization <i>in vivo</i> by Inhibition of Vascular Endothelial Growth Factor (VEGF) Using Soluble VEGF-Receptor Chimeric Proteins,"
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EXAMINER	<i>Jan H. Gysels-Ford</i>	DATE CONSIDERED	11-7-05
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JH		Proc. Natl. Acad. Sci. USA 92: 10457-10461 (1995)
	*	Aiello, <i>et al.</i> , "Vascular Endothelial Growth Factor in Ocular Fluid of Patients with Diabetic Retinopathy and Other Retinal Disorders," 1994 <i>New Engl. J. Med.</i> 331, 1480
	*	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," <i>Trends Cell Biol.</i> 2:139-144 (1992)
	26.	Aldrian-Herrada <i>et al.</i> , "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <i>Nucleic Acids Research</i> 26:4910-4916 (1998)
	27.	Bahramian <i>et al.</i> , "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <i>Molecular and Cellular Biology</i> , 274-283 (1999)
	*	Bartel and Szostak, "Isolation of New Ribozymes From a Large Pool of Random Sequences," <i>Science</i> 261:1411-1418 (1993)
	28.	Bass, "The short answer," <i>Nature</i> 411:428-429 (2001)
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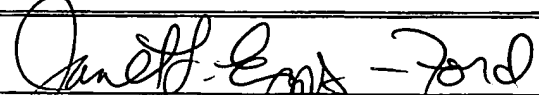
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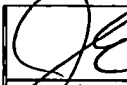

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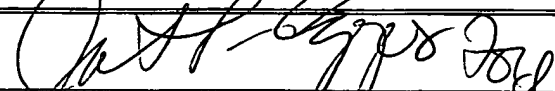
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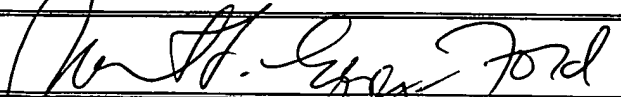
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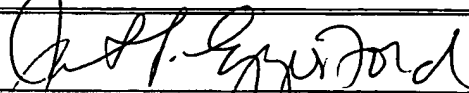
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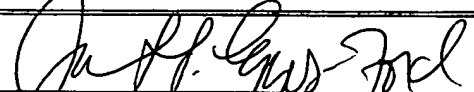
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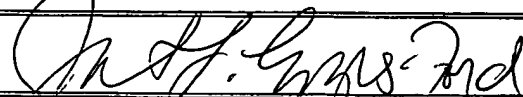
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Atty. Docket No.

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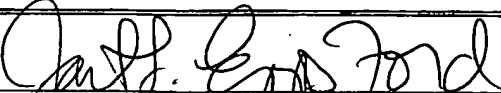
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Atty. Docket No.

02-325-A (400/047)

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EXAMINER	DATE CONSIDERED
<i>Just-Lys-Ford</i>	11-7-05

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